Exploring the Extreme			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade K			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	OK	MA.K.4.1.a	Measure objects using nonstandard units of measurement (e.g., pencil, paper clip, block).
Finding the Center of Gravity Using Rulers	OK	MA.K.4.1.d	Identify the appropriate instrument used to measure length (ruler), weight (scale), time (clock: digital and analog; calendar: day, month, year, season), and temperature (thermometer).
Exploring the Extreme			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade 1			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	OK	MA.1.4.1	Measure objects with one-inch tiles and with a standard ruler to the nearest inch.
Finding the Center of Gravity Using Rulers	OK	MA.1.5.1.b	Formulate and solve problems that involve collecting and analyzing data common to children's lives (e.g., color of shoes, numbers of pets, favorite foods).
Exploring the Extreme			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	OK	MA.2.4.1.a	Measure objects using standard units (e.g., measure length to the nearest foot, inch, and half inch).
Exploring the Extreme			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade 3			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	OK	MA.3.4.1.a	Choose an appropriate measurement instrument and measure the length of objects to the nearest inch or half-inch and the weight of objects to the nearest pound or ounce.

Finding the Center of Gravity Using Plumb Lines	OK	MA.3.4.1.a	Choose an appropriate measurement instrument and measure the length of objects to the nearest inch or half-inch and the weight of objects to the nearest pound or ounce.
Finding the Center of Gravity Using Plumb Lines	OK	MA.3.4.1.b	Choose an appropriate measurement instrument and measure the length of objects to the nearest meter or centimeter and the weight of objects to the nearest gram or kilogram.
Changing the Center of Gravity Using Moment Arms	OK	MA.3.4.1.a	Choose an appropriate measurement instrument and measure the length of objects to the nearest inch or half-inch and the weight of objects to the nearest pound or ounce.
Changing the Center of Gravity Using Moment Arms	OK	MA.3.4.1.b	Choose an appropriate measurement instrument and measure the length of objects to the nearest meter or centimeter and the weight of objects to the nearest gram or kilogram.
Exploring the Extreme			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	OK	MA.4.4.1.c	Select appropriate customary and metric units of measure and measurement instruments to solve application problems involving length, weight, mass, area, and volume.
Finding the Center of Gravity Using Plumb Lines	OK	MA.4.4.1.c	Select appropriate customary and metric units of measure and measurement instruments to solve application problems involving length, weight, mass, area, and volume.
Changing the Center of Gravity Using Moment Arms	OK	MA.4.4.1.c	Select appropriate customary and metric units of measure and measurement instruments to solve application problems involving length, weight, mass, area, and volume.
Changing the Center of Gravity Using Moment Arms	OK	MA.4.5.1.a	Read and interpret data displays such as tallies, tables, charts, and graphs and use the observations to pose and answer questions (e.g., choose a table in social studies of population data and write problems).
Changing the Center of Gravity Using Moment Arms	OK	MA.4.5.1.b	Collect, organize and record data in tables and graphs (e.g., line graphs (plots), bar graphs, pictographs).

Exploring the Extreme			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Vectoring	OK	MA.5.4.1.a	Compare, estimate, and determine the measurement of angles.
Center of Gravity, Pitch, Yaw	OK	MA.5.2.2.a	Estimate, add, or subtract decimal numbers with same and different place values to solve problems (e.g., 3.72 + 1.4, $4.56 - $2.12).
Center of Gravity, Pitch, Yaw	OK	MA.5.2.2.c	Estimate and find the quotient (with and without remainders) with two-digit divisors and a two- or three-digit dividend to solve application problems.
Center of Gravity, Pitch, Yaw	OK	MA.5.4.1.a	Compare, estimate, and determine the measurement of angles.
Exploring the Extreme			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Center of Gravity, Pitch, Yaw	OK	MA.6.2.2.a	Multiply and divide fractions and mixed numbers to solve problems using a variety of methods.
Center of Gravity, Pitch, Yaw	OK	MA.6.4.2	Convert, add, or subtract measurements within the same system to solve problems (e.g., 9' 8" + 3' 6, 150 minutes = __ hours and __ minutes, 6 square inches = __ square feet).
Exploring the Extreme			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Fuel Efficiency	OK	MA.7.4.1	Develop and apply the formulas for perimeter and area of triangles and quadrilaterals to solve problems.
Exploring the Extreme			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade 8			
Activity/Lesson	**State**	**Standards**	

Fuel Efficiency	OK	MA.8.1.1.d	Apply appropriate formulas to solve problems (e.g., d=rt, I=prt).